

FIG. 1



2 / 17

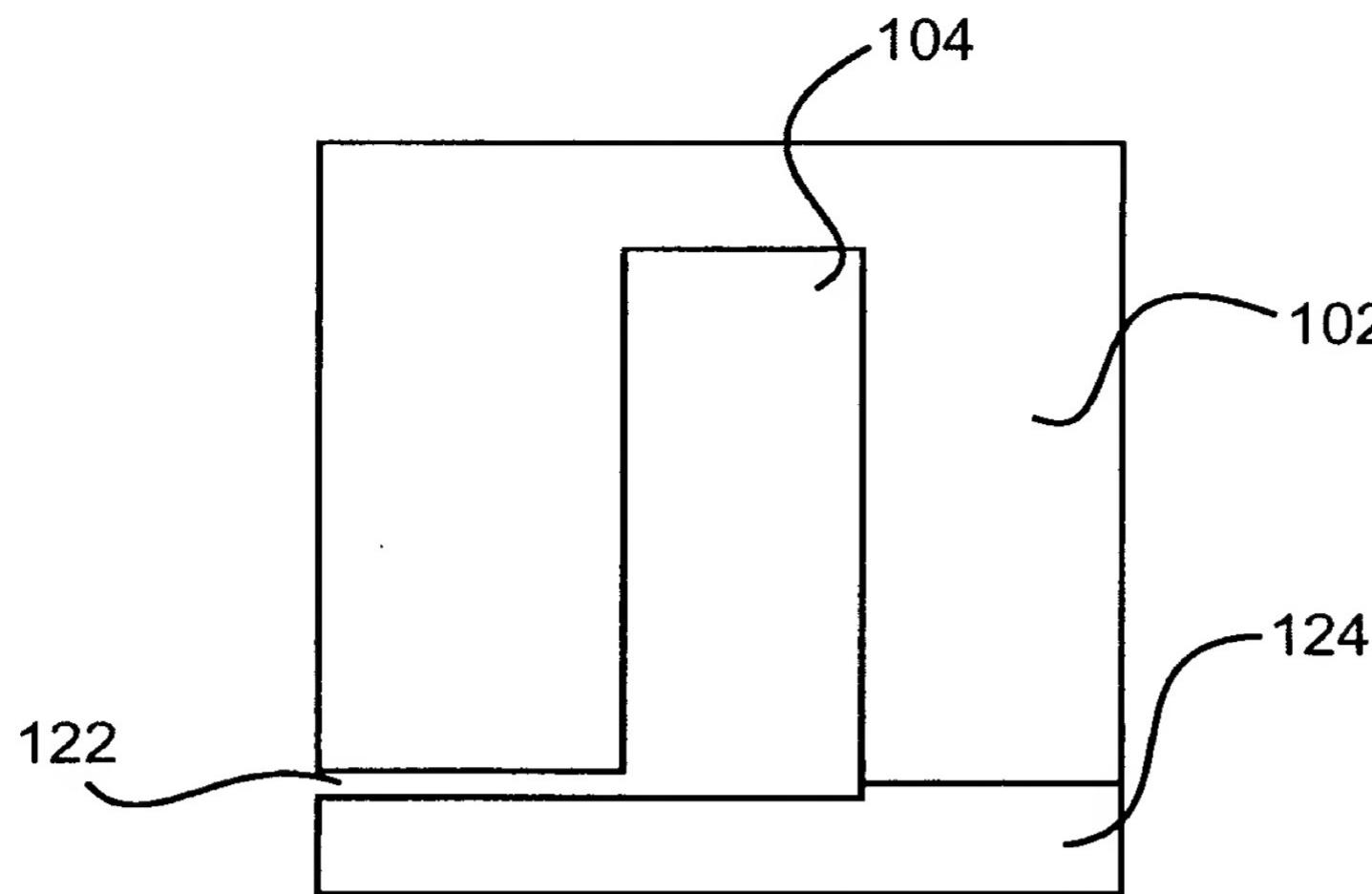


FIG. 2A

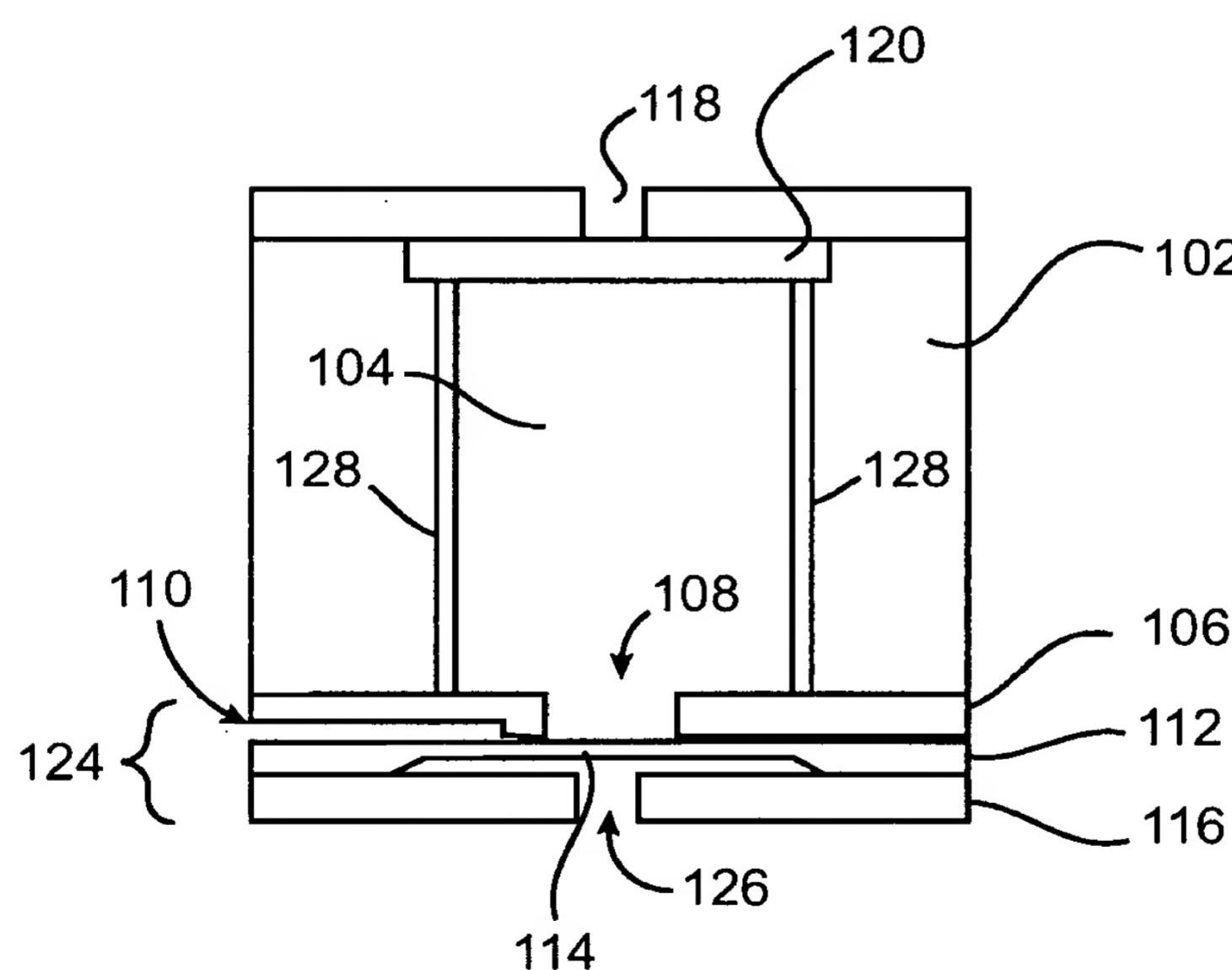


FIG. 2B



Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

3 / 17

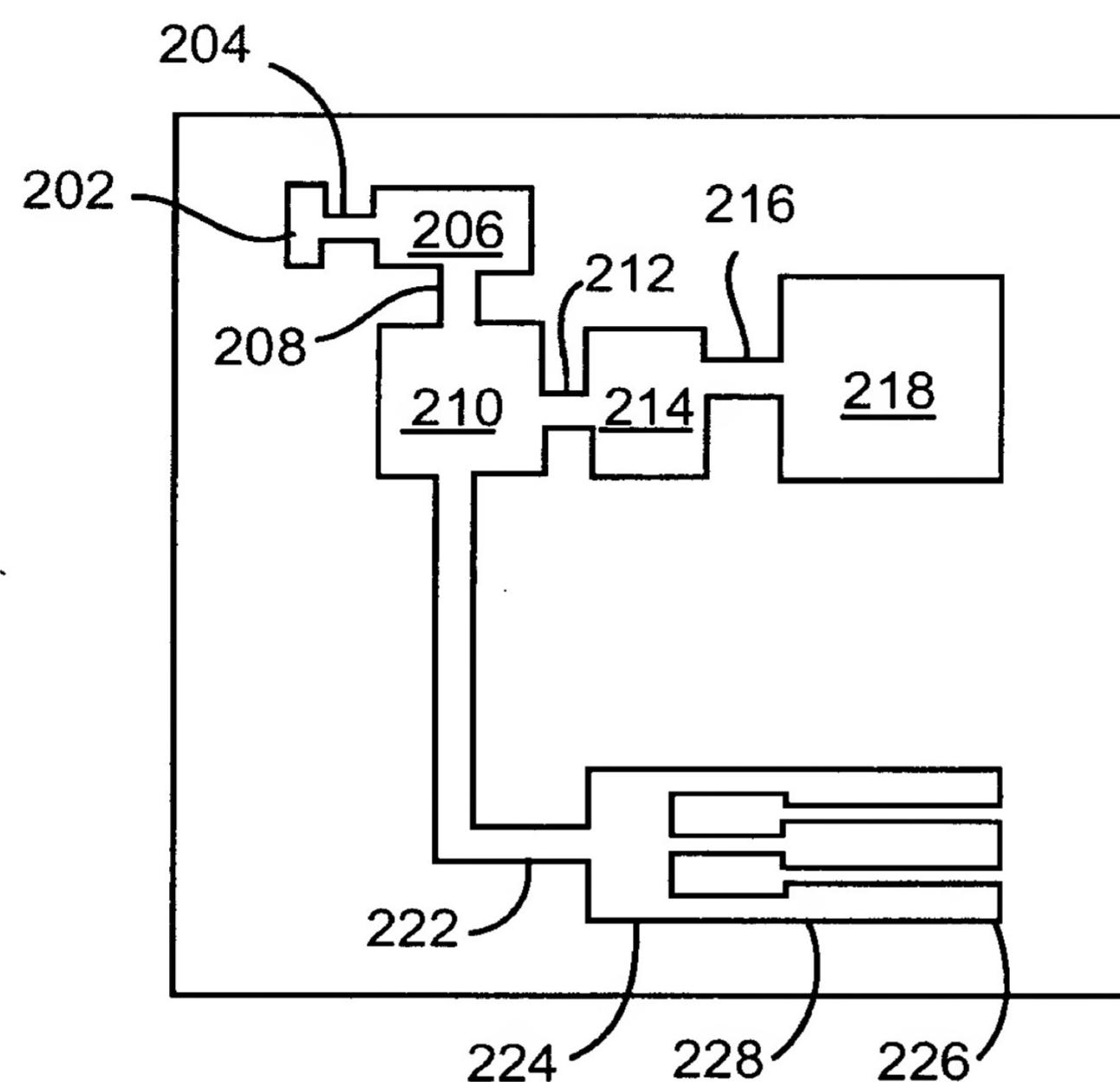
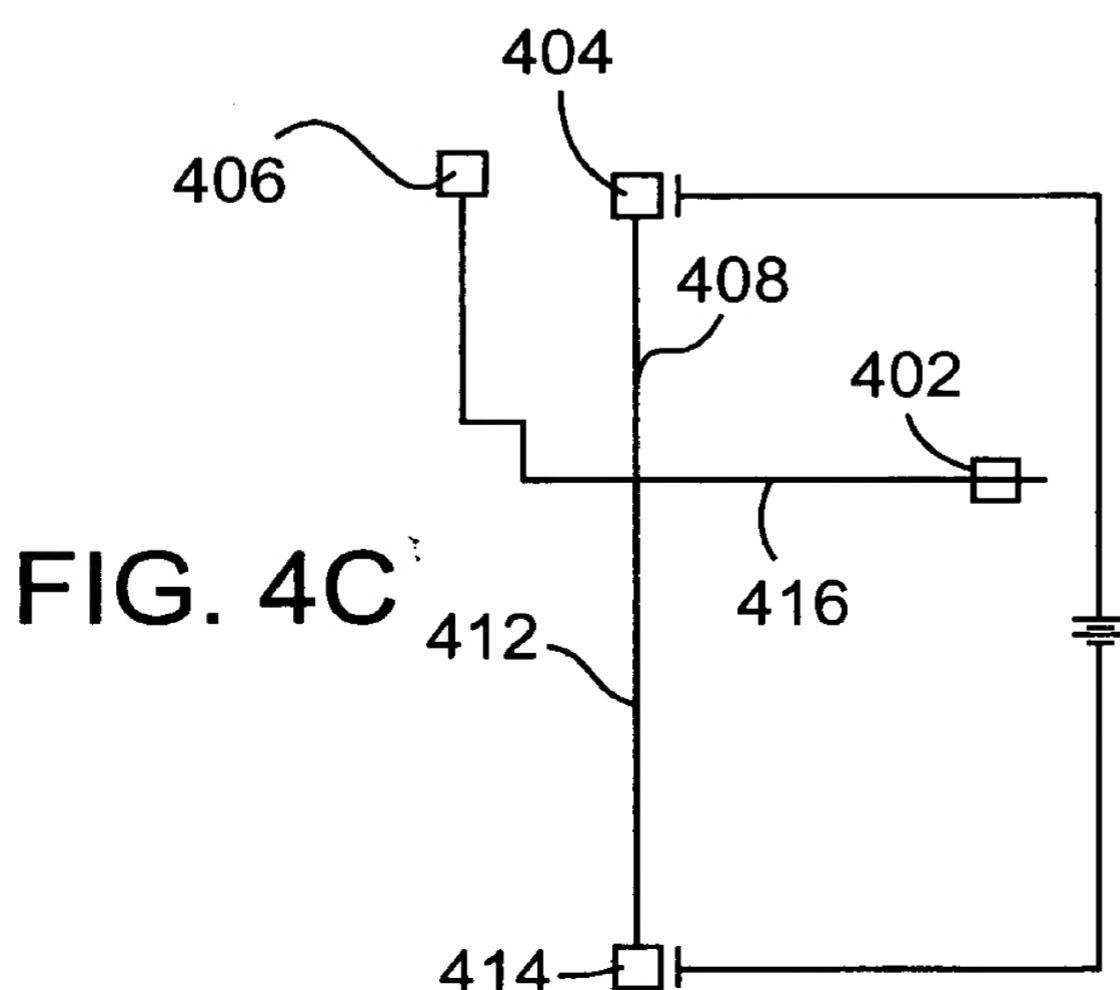
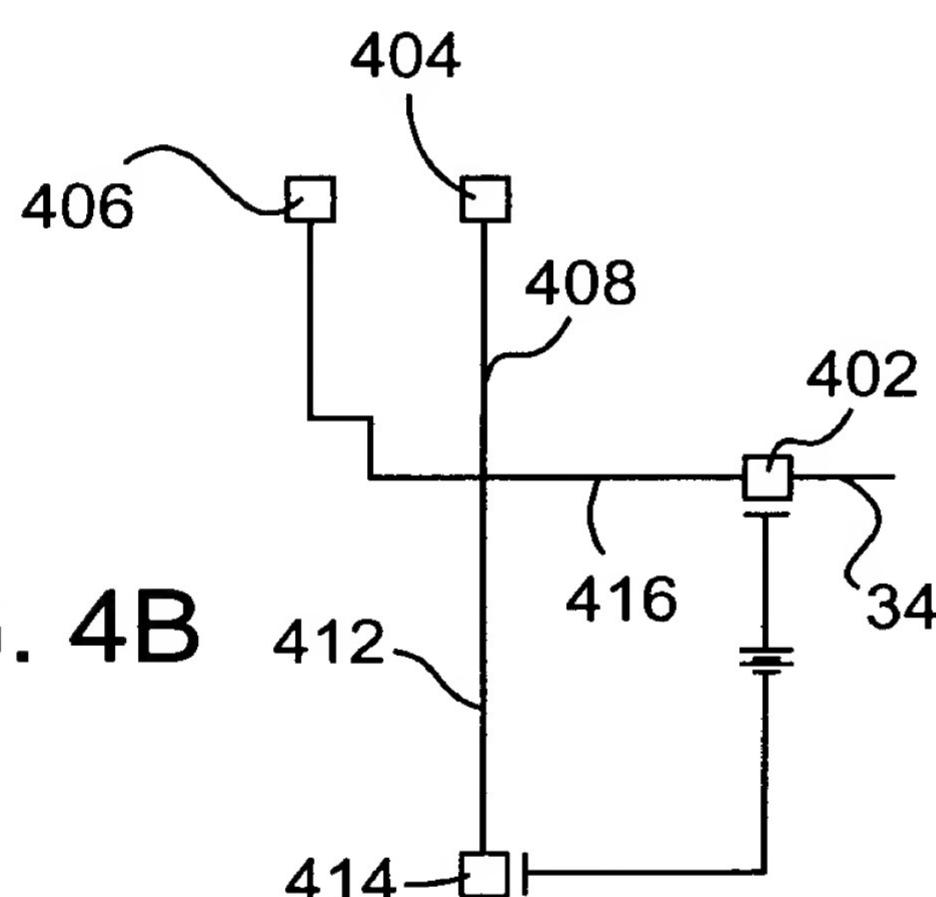
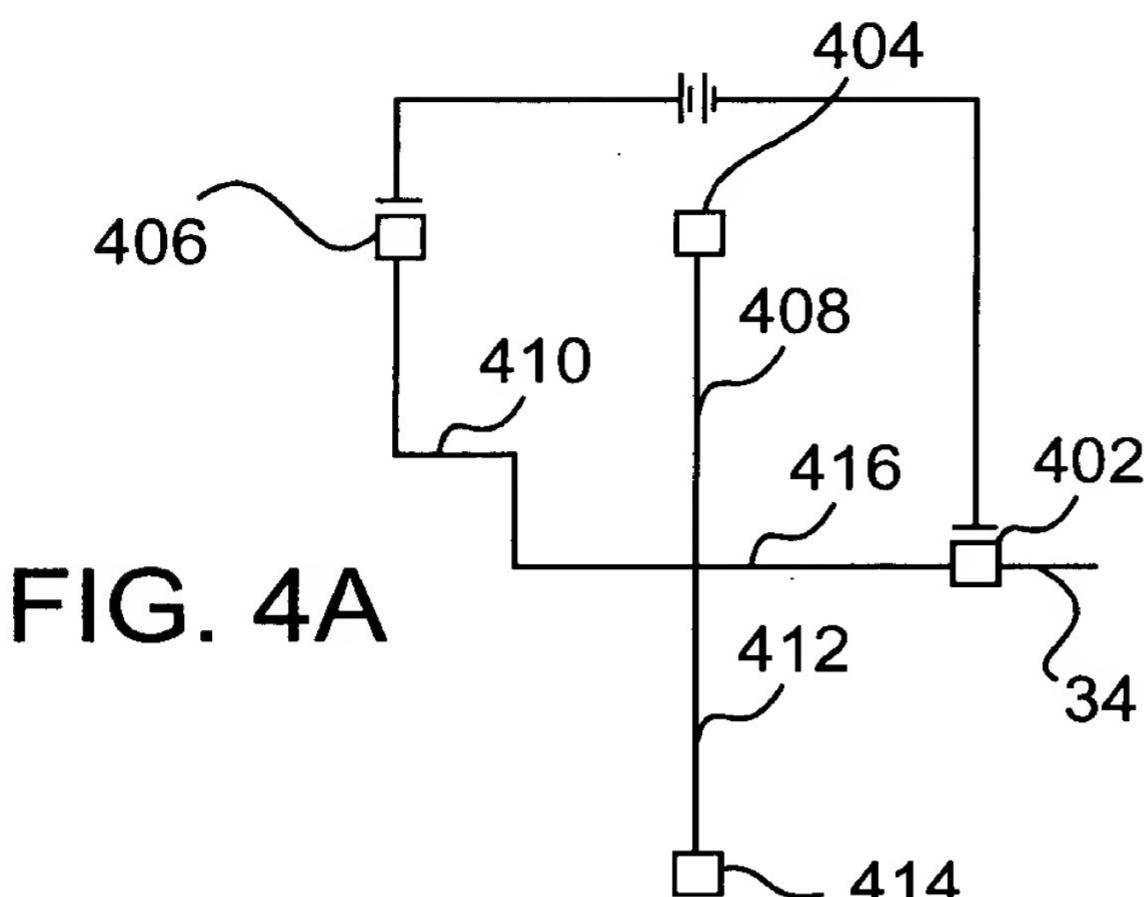


FIG. 3



4 / 17





US Ser. No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

5 / 17

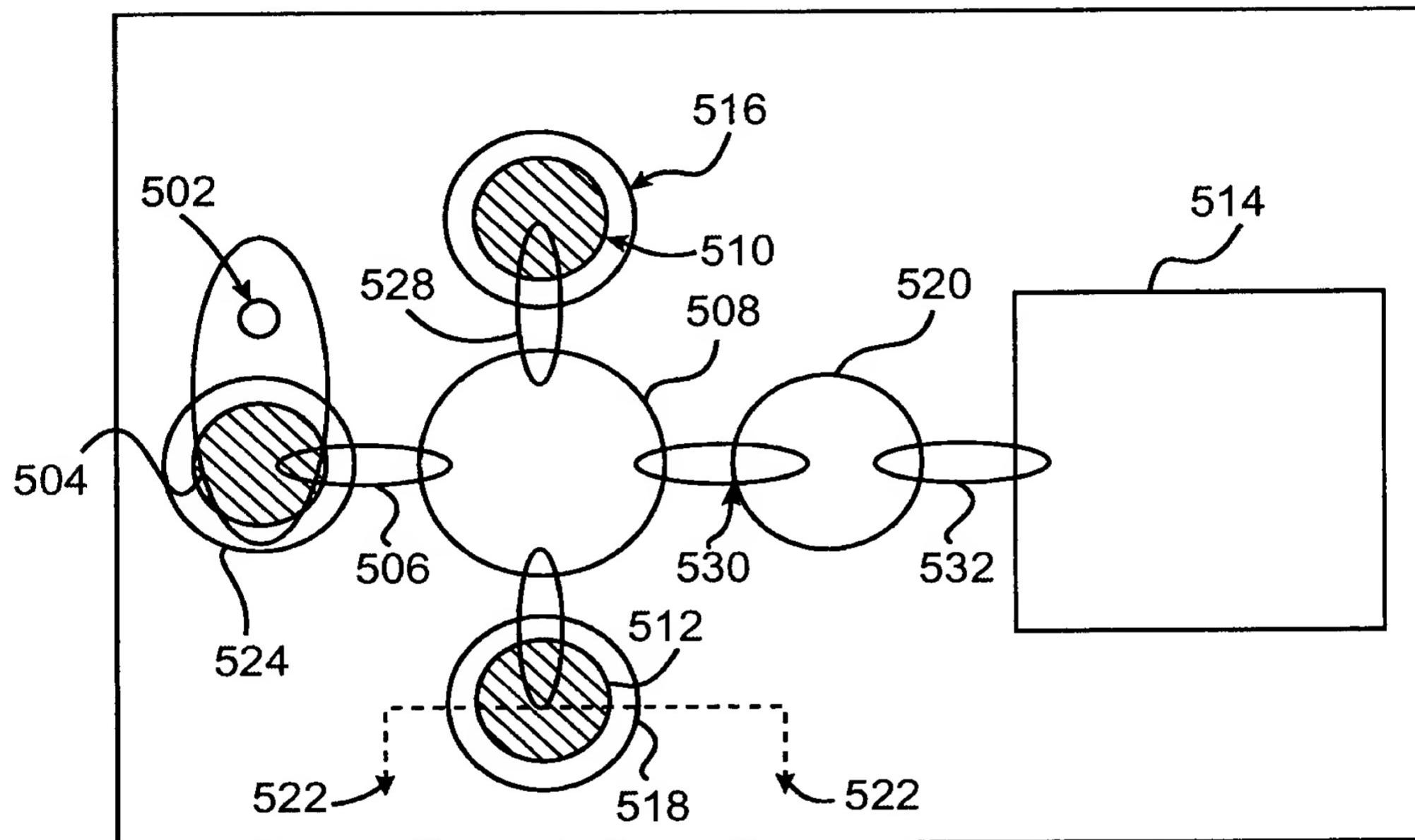


FIG. 5A



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

6 / 17

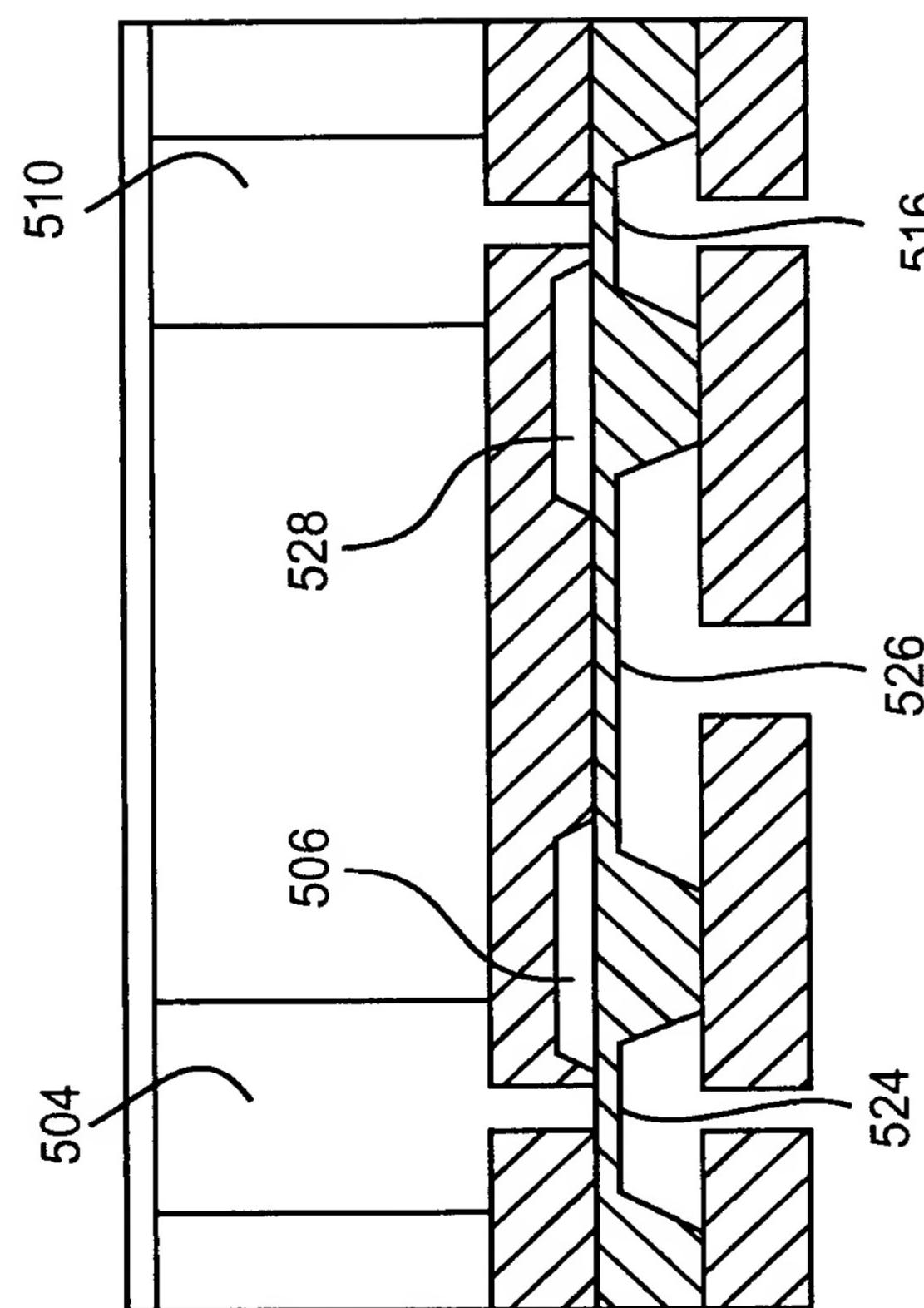


FIG. 5B



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

7 / 17

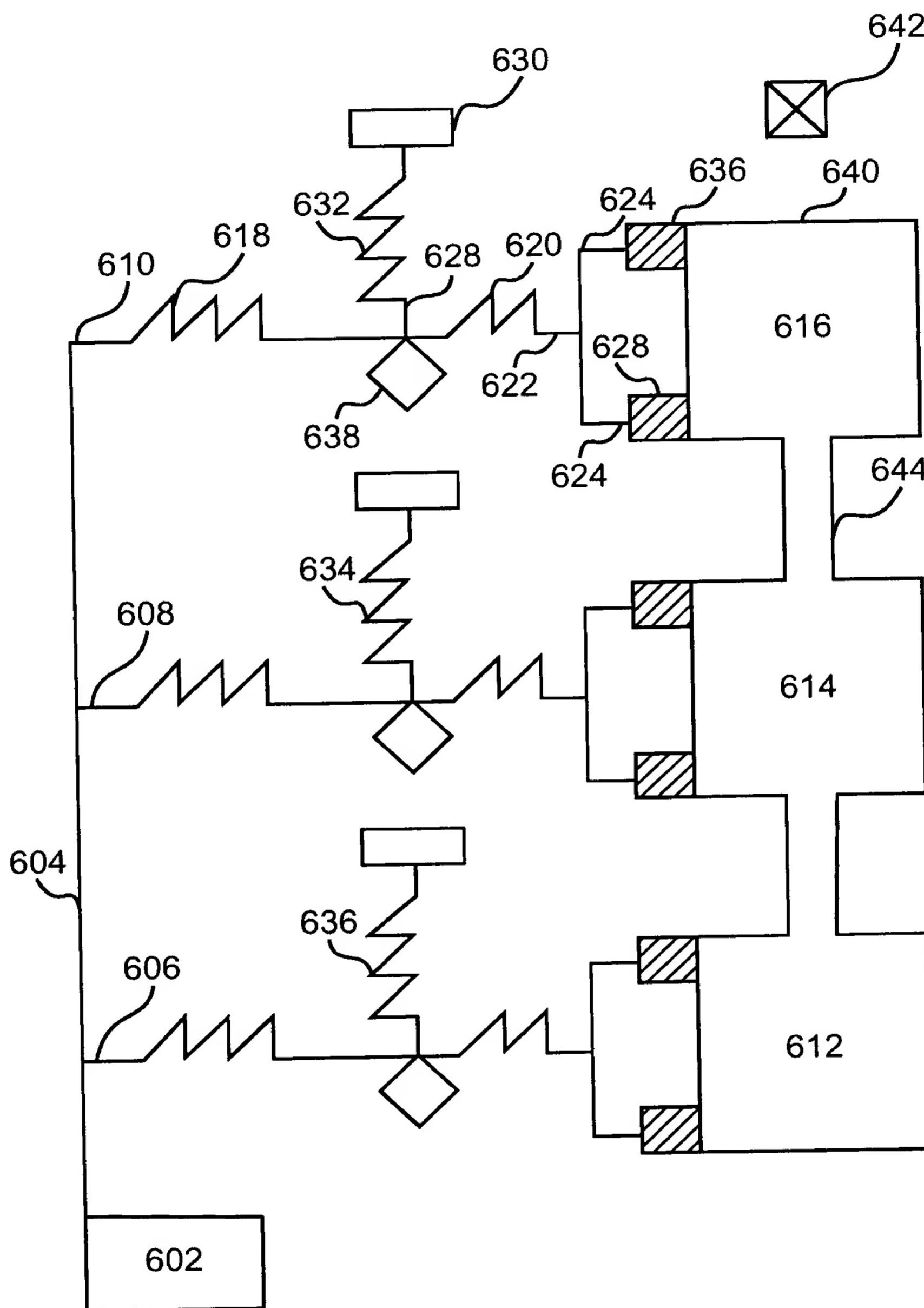
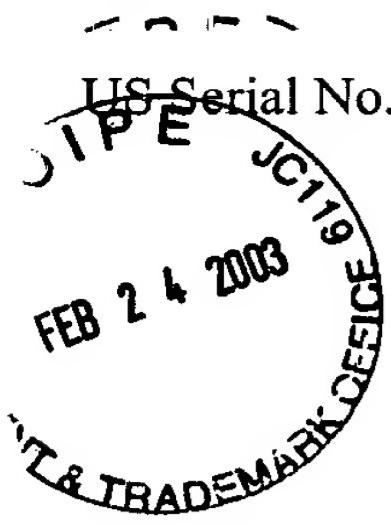


FIG. 6A



8 / 17

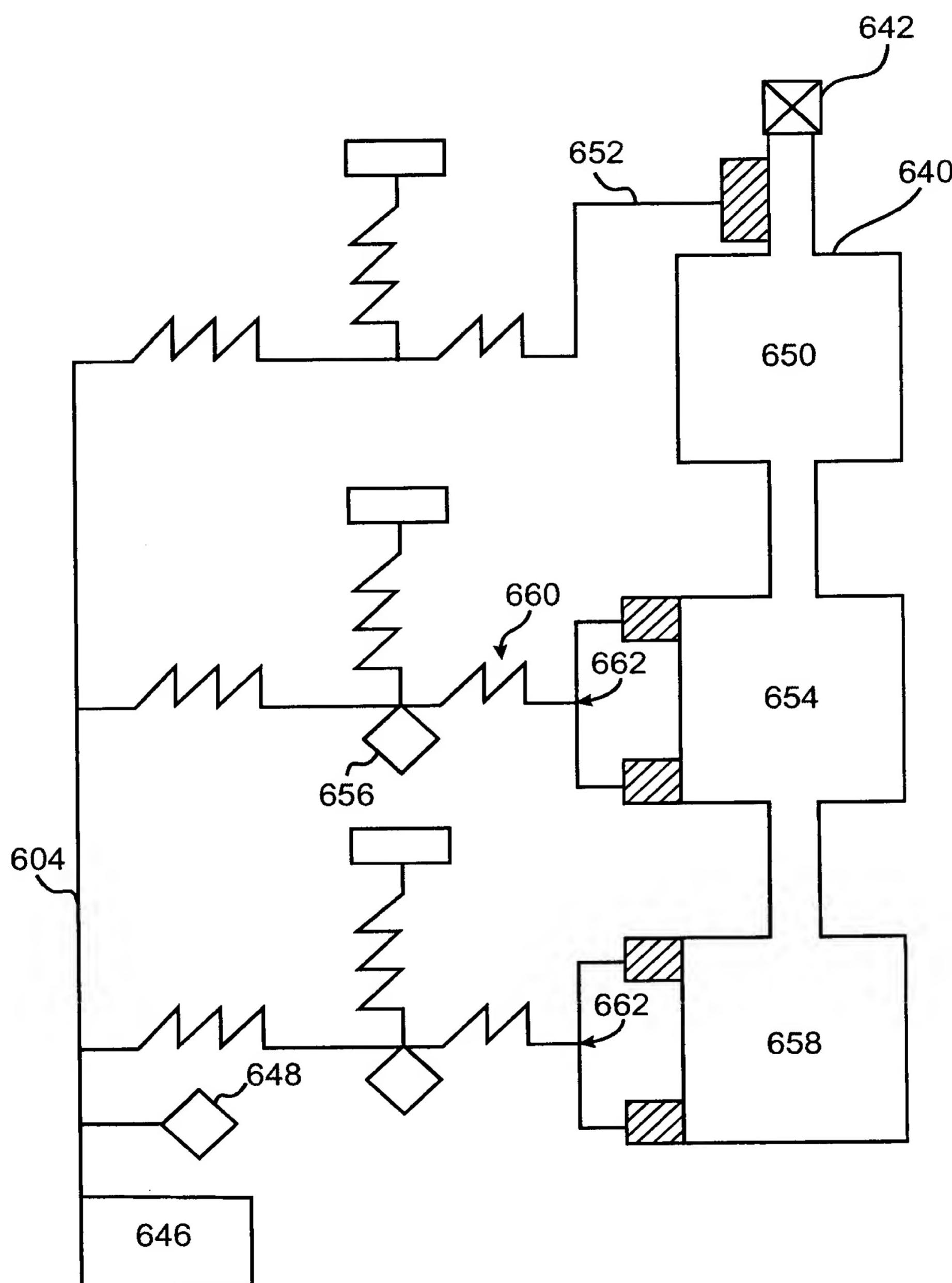


FIG. 6B



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

9 / 17

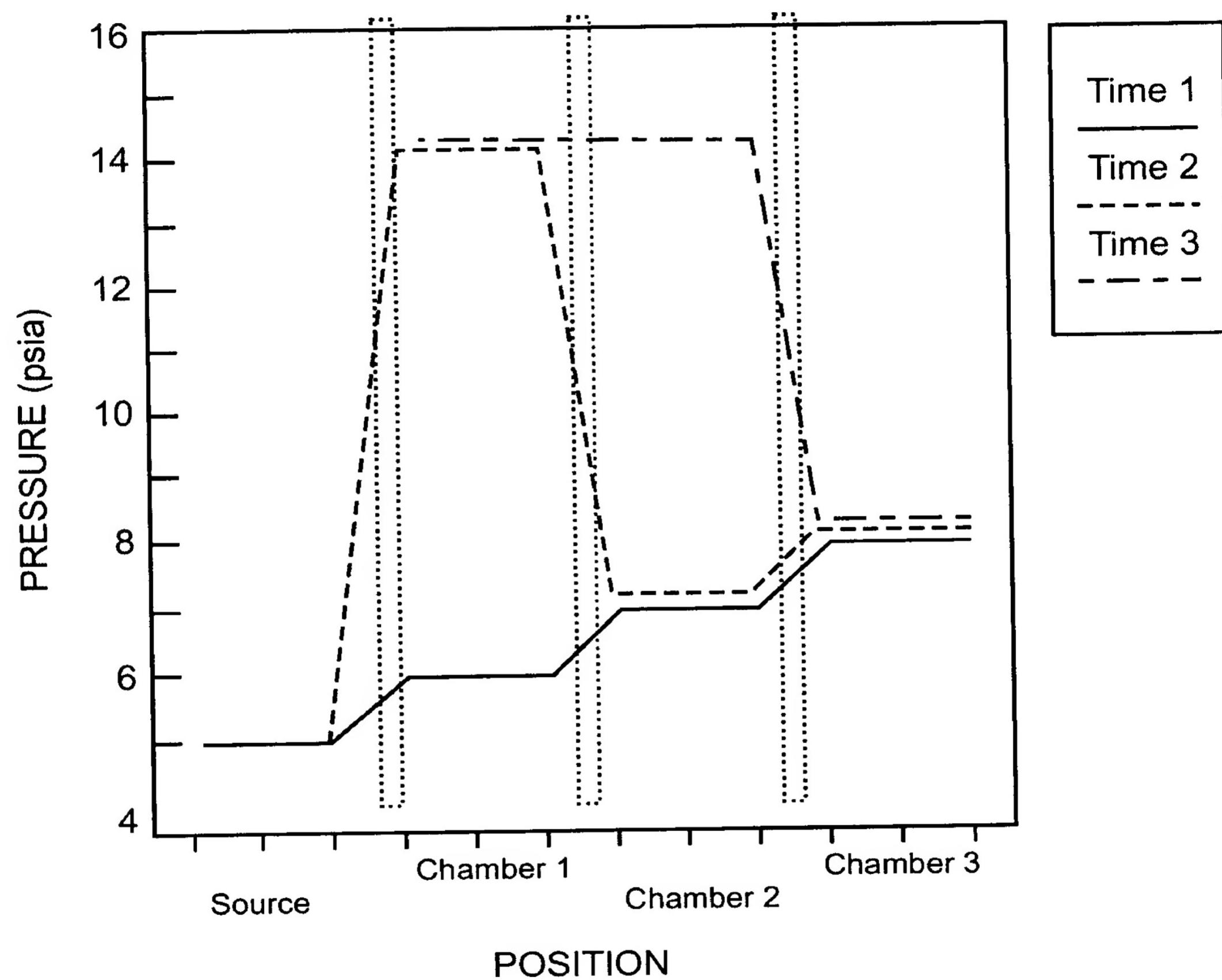
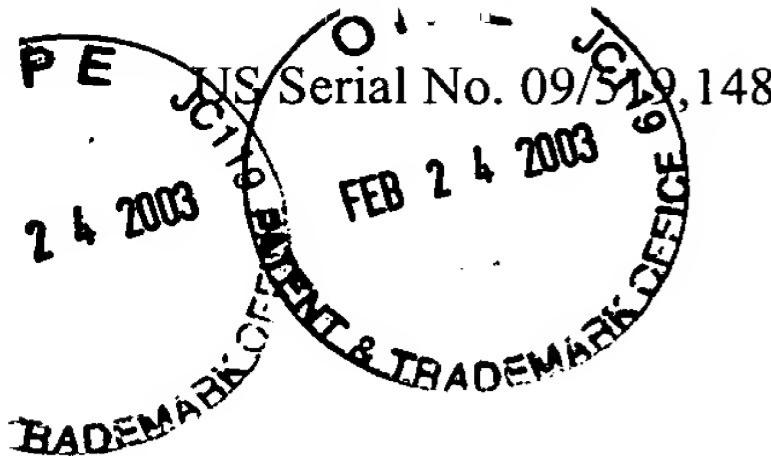


FIG. 6C



Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

10 / 17

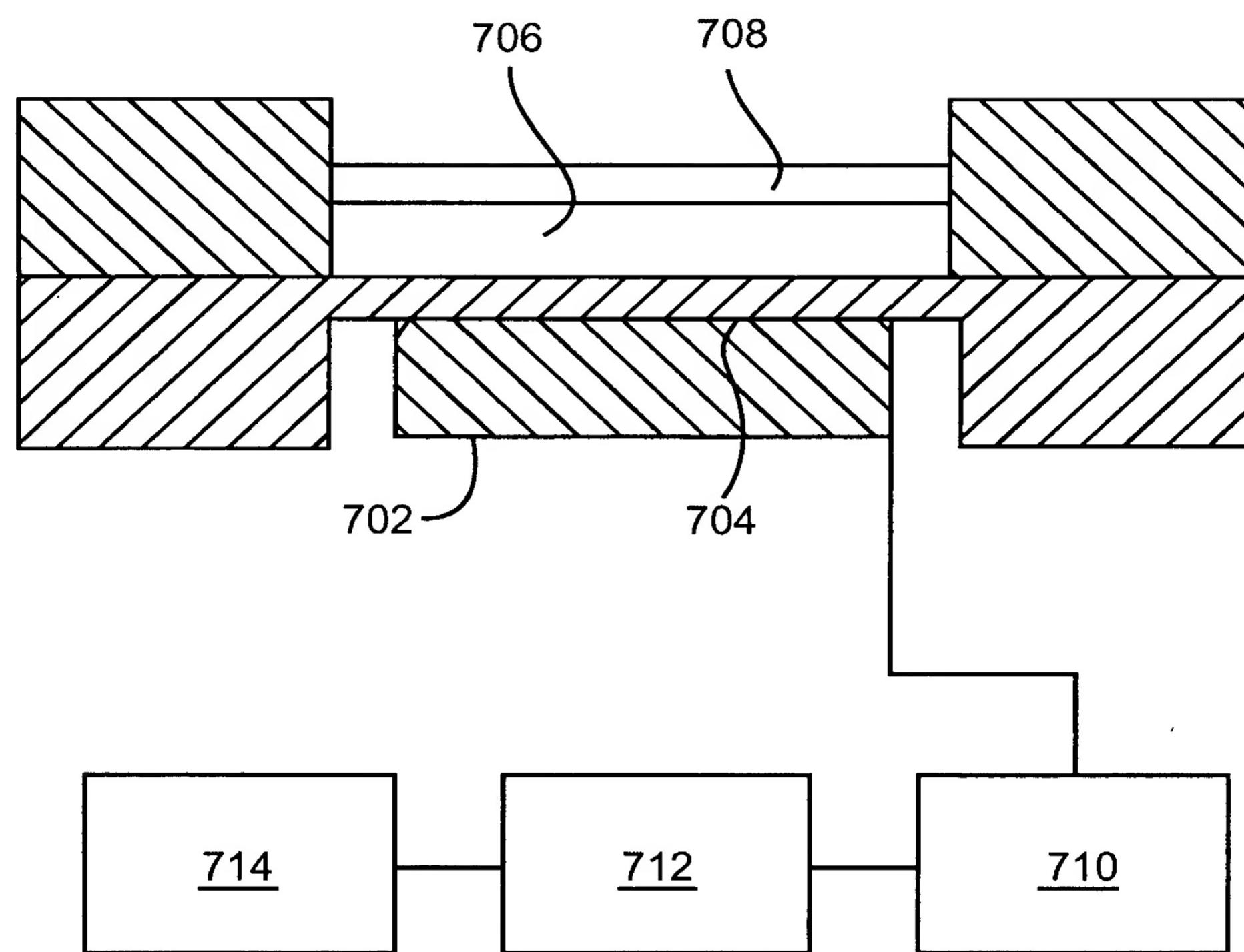


FIG. 7A



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

11 / 17

Flow Visualization

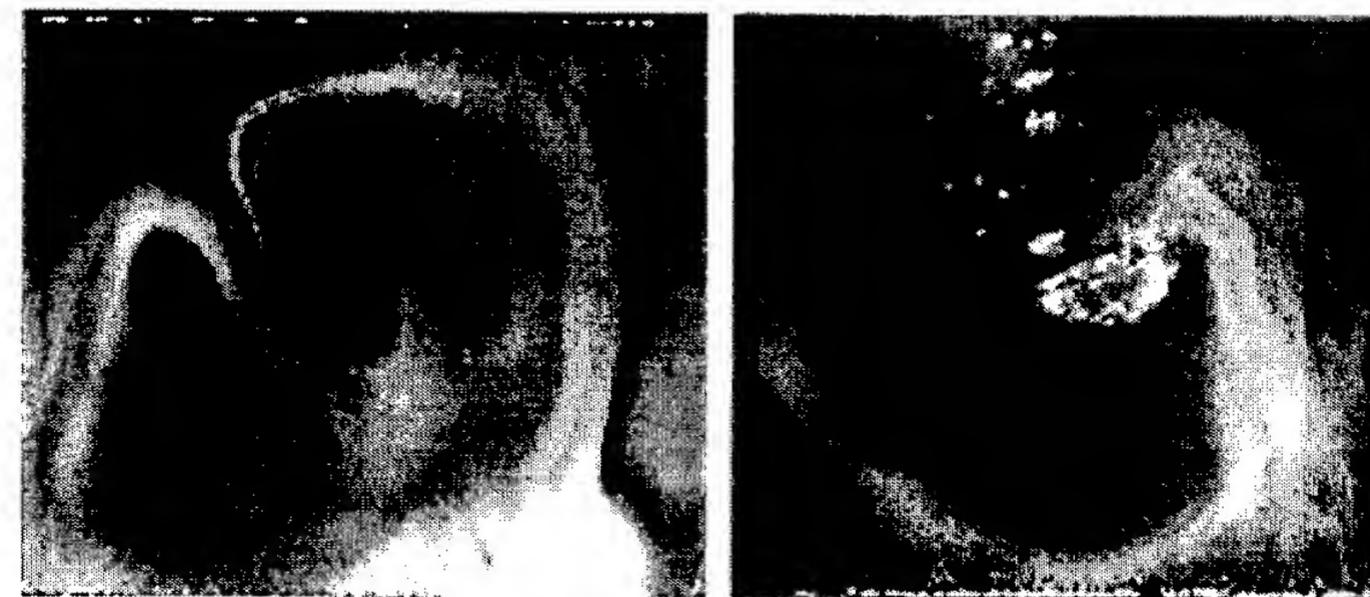


FIG. 7B

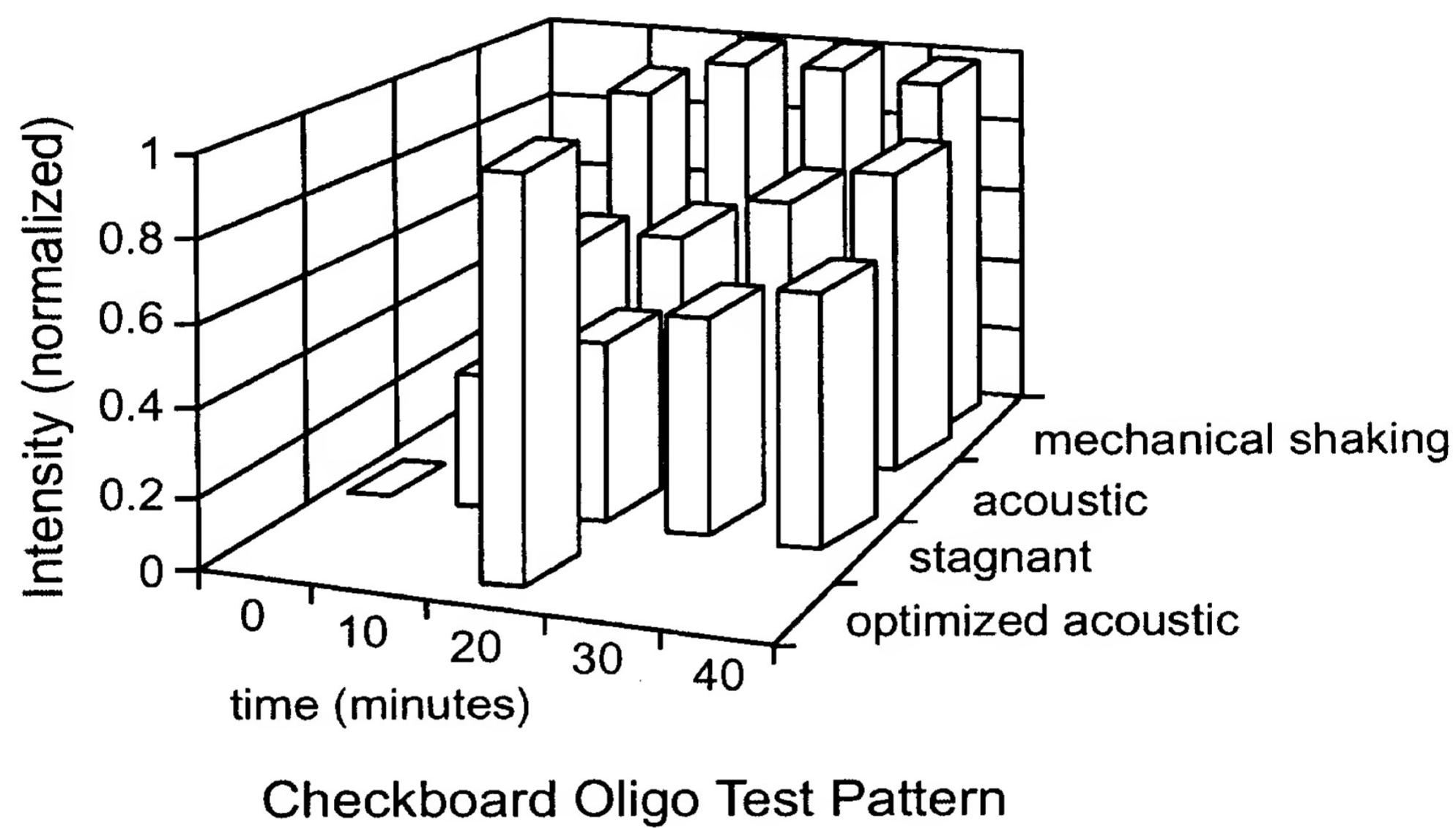


US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

12 / 17



Checkboard Oligo Test Pattern

FIG. 7C



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

13 / 17

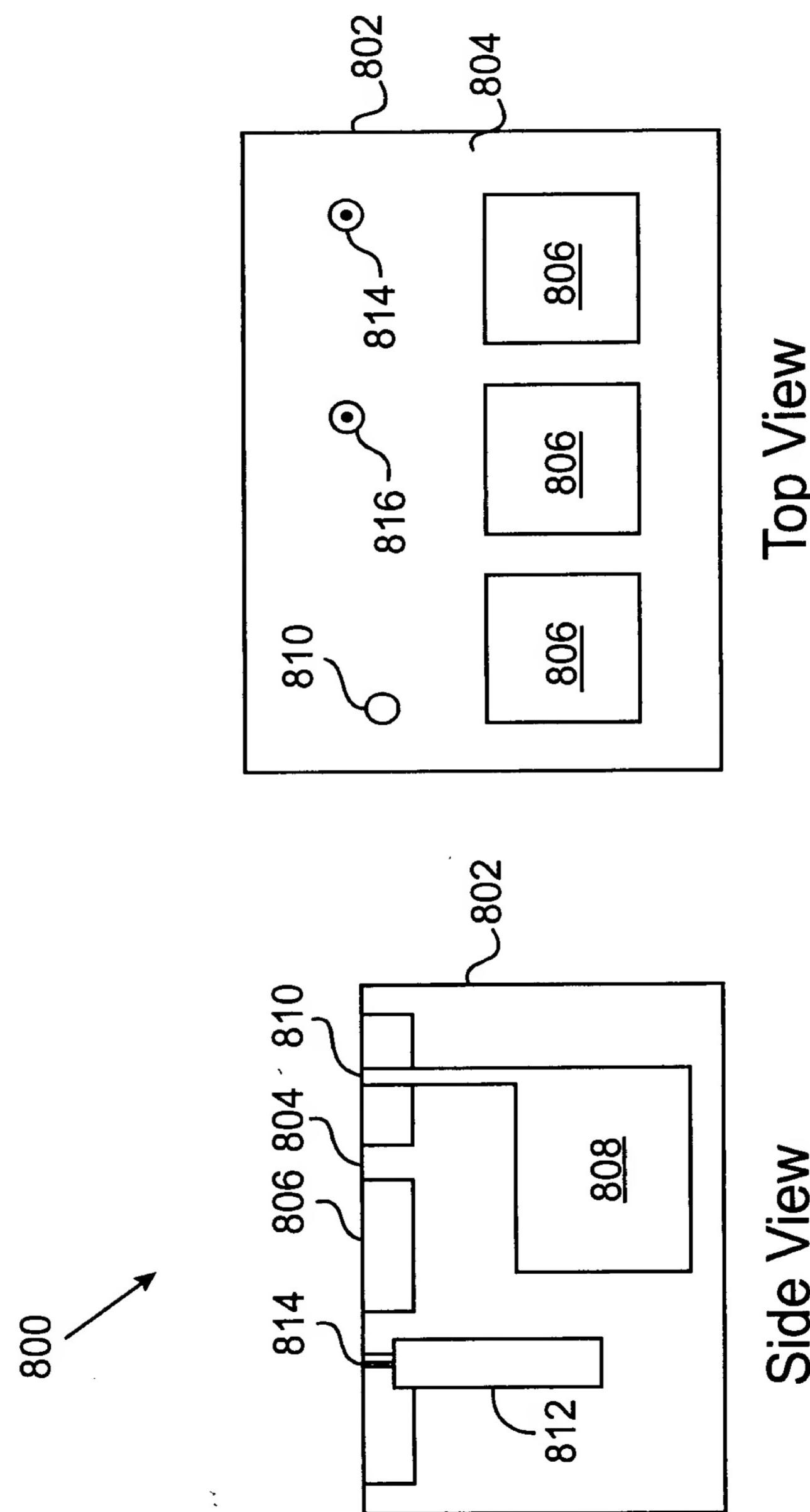


FIG. 8



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

14 / 17

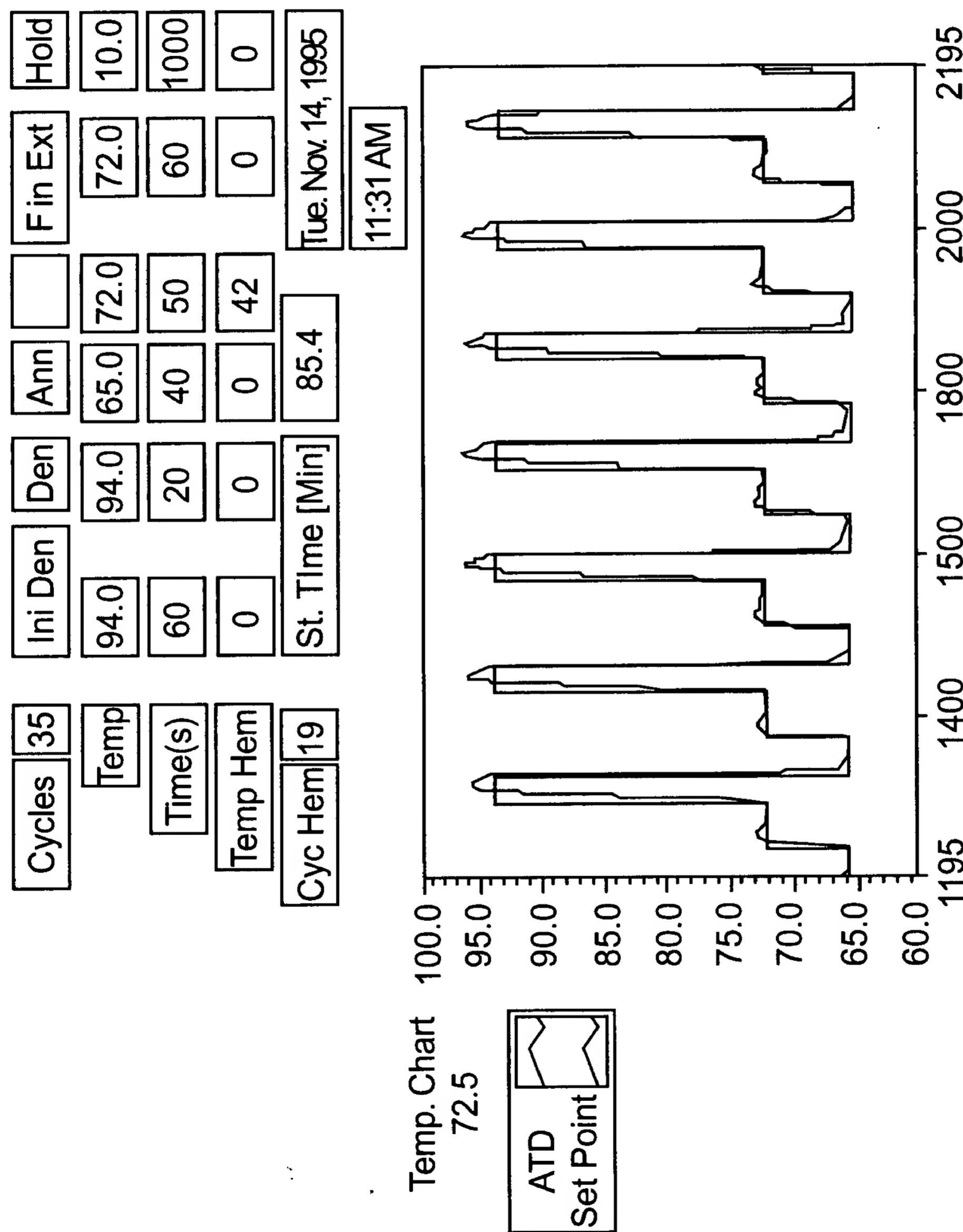


FIG. 9

51 P EUS Serial No. 09/519,148  
FEB 24 2003  
TRADEMAKING OFFICE

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

15 / 17

### Effect of Fragmentation Time at 94C

t = 0 5 10 30 60 120 minutes



Correct Call Rates:

74%	95.8%	95.9%
95.9%	95.5%	83%

FIG. 10A



US Serial No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

16 / 17

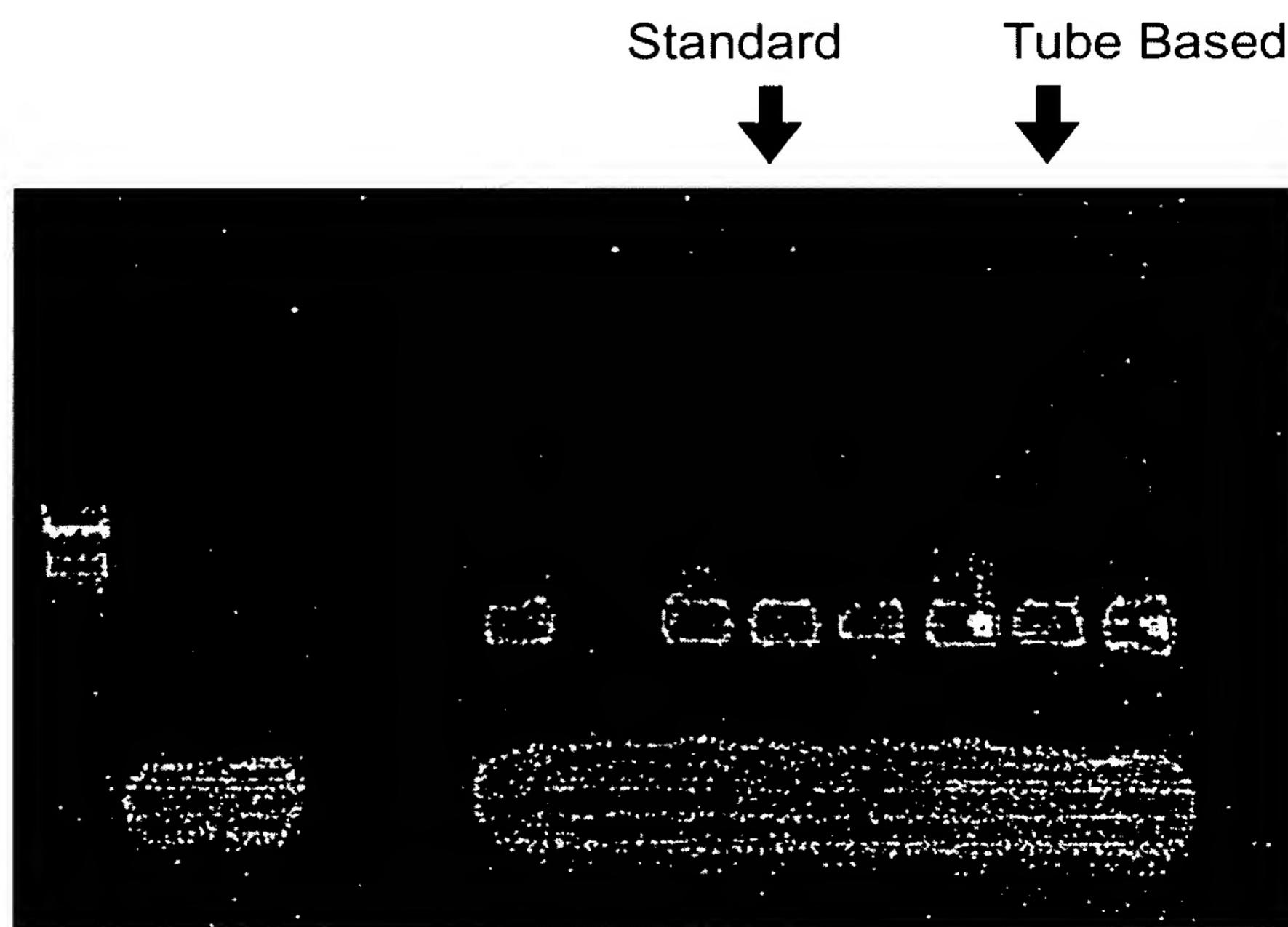


FIG. 10B



No. 09/519,148

Applicant: Robert J. Lipshutz et al

Filed: March 6, 2000

17 / 17

## PCR Results

### ■ PCR

amplification:  $10^9$  (35 cycles)

control    microchamber

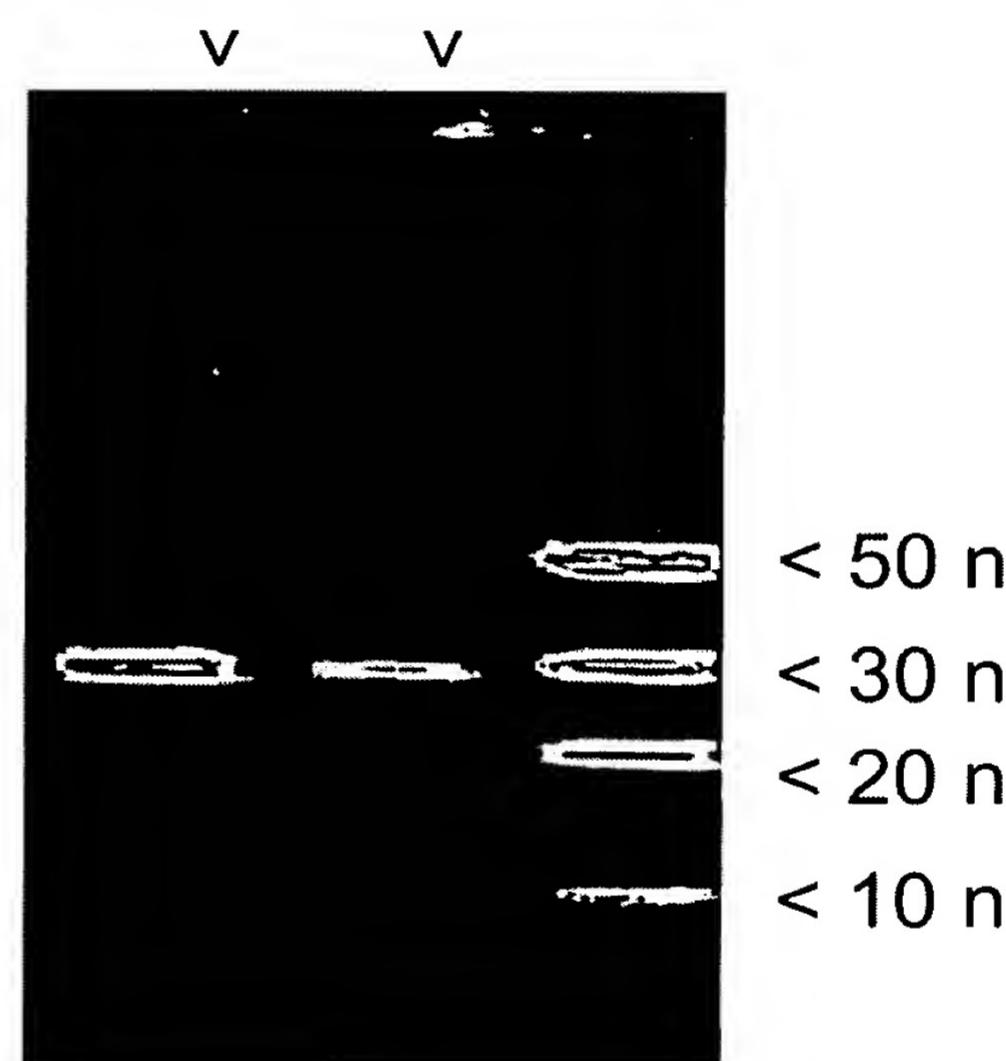


FIG. 10C